

[54] **MULTIPLE CIRCUIT SELECTOR SWITCH ASSEMBLY HAVING MOVABLE CONTACT MEANS ADAPTED TO RETAIN ITSELF IN CLOSED CIRCUIT POSITION**

[75] inventors: **Charles Edward Reynolds, Camp Hill; Harold Oakley Woolley, Jr., Hershey, both of Pa.**

[73] Assignee: **AMP Incorporated, Harrisburg, Pa.**

[22] Filed: **June 14, 1973**

[21] Appl. No.: **370,096**

[52] U.S. Cl. **200/5 A, 200/5 E, 200/16 R, 200/16 D, 200/159 B, 200/275, 200/284**
 [51] Int. Cl. **H01h 13/74, H01h 15/02**
 [58] Field of Search **200/1 R, 5 R, 5 A, 5 E, 200/5 EA, 5 EB, 6 R, 6 B, 16 R, 85 R, 86 R, 86 A, 61.54-61.57, 159 B, 259, 260, 275, 284, 16 C**

[56] **References Cited**
UNITED STATES PATENTS

1,886,284	11/1932	Luther	200/5 A
2,320,774	6/1943	Flynt	200/5 EA
3,305,724	2/1967	Shaheen	200/85 A UX
3,485,204	12/1969	Christman	200/16 R X
3,584,162	6/1971	Krakinowski	200/86 R X
3,681,723	8/1972	Goll	200/86 R X

3,699,294	10/1972	Sudduth	200/5 A X
3,715,541	2/1973	Koenig	200/85 A UX
3,742,157	6/1973	Leposavic	200/5 A

Primary Examiner—James R. Scott

[57] **ABSTRACT**

A switch assembly has an apertured grate superimposed upon a contact board on which a plurality of independent electrical contacts are located. The apertures in the grate are respectively associated with the contacts to expose the contacts through the grate. A cross-curved elongated contact strip is operatively connected to the grate on the side thereof opposite the contacts in a predetermined position and configuration such that the strip is flexed between its points of connection to the grate in order to form a single projection which extends into one of the apertures and engages the contact associated therewith. The cross-curved contact strip flattens at the projection within the aperture because of the flexing of the strip, and thus holds the strip in that aperture until the strip is urged through another aperture in the grate, either manually or by a pushbutton or the like, thereby causing the projection in the strip to occur at the other aperture and relieving the projection at the aperture in which it was previously formed.

14 Claims, 11 Drawing Figures

